
“NEOARK” Laser Doppler Vibrometer, MLD-301 Series

This is the non-touch type Laser Doppler Vibrometer for micro vibration measurement, by approaching a sensor unit to vibrating sample (material).

Application:

1. Pick up vibration analysis of CD, HD etc.
2. Vibration analysis of piezoelectric element, printer head etc.
3. Vibration analysis of audio instruments

MLD-301A (Interferometer built-in type Sensor Unit)

Interference optical unit and collimator are composed as a sensor unit, and light source, electric power source, signal processing unit are separated with the sensor unit, which are connected by an optical fiber.

Technical Feature:

Recommendable for a low reflectivity materials, or for long working distance etc.

MLD-301B (Collimator type Sensor Unit)

Sensor unit is composed only with collimator, and interference optical unit, light source, electric power source and signal processing unit are separated in a set, which are connected by an optical fiber.

Technical Features:

Recommendable for a narrow space installation. Extensive application is possible, when a specification may have alteration corresponding to lens or to microscope.
(On a customer's special requirement)



Specification

Model	MLD-301A	MLD-301B
Range of Response Frequency	1HZ ~ 1.5MHz	1HZ ~ 1.5MHz
Range of Measuring Speed	2 μ m/sec~5m/sec	2 μ m/sec~5m/sec
Low Pass Filter	3.3KHz, 10KHz, 33KHz, 100KHz, 330KHz, OFF	3.3KHz, 10KHz, 33KHz, 100KHz, 330KHz, OFF
High Pass Filter	OFF, 33Hz, 330Hz, 3.3KHz	OFF, 33Hz, 330Hz, 3.3KHz
Measuring Distance	150mm~500mm	50mm~300mm
Spot Size	ϕ 40 μ m~ ϕ 200 μ m	ϕ 50 μ m~ ϕ 100 μ m
Light Source		
① Wavelength	He-Ne 633nm	He-Ne 633nm
② Power	2mW	2mW
Electric Power Source	AC100V, below than 500VA	
Outer Dimension		
Controller	350(W)X200(H)X500(D)mm	350(W)X200(H)X500(D)mm
Sensor Head	80(W)X160(D)X60(H)mm	ϕ 20X100mm
Weight		
Controller	10kg	12kg
Sensor Head	2kg	200g

Optional devices may be arranged on a customer's order.



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